

AMENDMENTS TO THE CLAIMS

1. (Currently Amended): A method of fabricating a liquid crystal display device, comprising:
forming a first orientation film on a first substrate;
forming a second orientation film on a second substrate;
spacing the first and second substrates apart by a gap;
forming a ferroelectric liquid crystal layer between the first and second substrates, the ferroelectric liquid crystal layer having an additive;
aligning the ferroelectric liquid crystal layer around a phase transition temperature of a SmC* phase; and
forming polymer networks in the ferroelectric liquid crystal layer by polymerizing the additives, wherein the ferroelectric liquid crystal layer has a mono-domain.
2. (Original): A method of fabricating a liquid crystal display device according to claim 1, wherein the additive includes an acrylate compound.
3. (Original): A method of fabricating a liquid crystal display device according to claim 1, wherein a weight % of the additive in the ferroelectric liquid crystal layer is between 1 and 3%.
4. (Original): A method of fabricating a liquid crystal display device according to claim 1, wherein the polymer networks are formed by exposing the ferroelectric liquid crystal layer to light.
5. (Original): A method of fabricating a liquid crystal display device according to claim 4, wherein the exposing light is ultraviolet.
6. (Original): A method of fabricating a liquid crystal display device according to claim 5, wherein the energy of the ultraviolet is between 40 and 200 nJ/cm².
7. (Original): A method of fabricating a liquid crystal display device according to claim 5, wherein the power of the ultraviolet is between 1 and 5 mW/cm².

8. (Original): A method of fabricating a liquid crystal display device according to claim 1, wherein the polymer networks are formed along molecule layer boundaries of the ferroelectric liquid crystal layer.
9. (Original): A method of fabricating a liquid crystal display device according to claim 1, wherein the polymer networks are formed across molecule layer boundaries of the ferroelectric liquid crystal layer.
10. (Original): A method of fabricating a liquid crystal display device according to claim 1, wherein the phase transition temperature includes those from the SmA phase to the SmC* phase.
11. (Original): A method of fabricating a liquid crystal display device according to claim 1, wherein the phase transition temperature includes those from the N* phase to the SmC* phase.
12. (Previously Presented): A method of fabricating a liquid crystal display device according to claim 1, wherein the ferroelectric liquid crystal layer is aligned around the phase transition temperature of the SmC* phase by applying a direct current electric field.
13. (Withdrawn): A liquid crystal display device, comprising:
a first orientation film on a first substrate;
a second substrate spaced apart from said first substrate by a gap;
a second orientation film on the second substrate; and
a ferroelectric liquid crystal in the gap, wherein the ferroelectric liquid crystal layer includes a polymer network.
14. (Withdrawn): A liquid crystal device according to claim 13, wherein the polymer network is a polymerized additive.
15. (Withdrawn): A liquid crystal device according to claim 14, wherein the additive includes an acrylate compound.
16. (Withdrawn): A liquid crystal device according to claim 14, wherein the additive is between

1 and 3% by weight of the ferroelectric liquid crystal layer.

17. (Withdrawn): A liquid crystal device according to claim 13, wherein the polymer network is along molecule layer boundaries of the ferroelectric liquid crystal layer.

18. (Withdrawn): A liquid crystal device according to claim 13, wherein the polymer network is across molecule layer boundaries of the ferroelectric liquid crystal layer.

19. (Withdrawn): A liquid crystal device according to claim 13, further comprising a backlight.

20. (Withdrawn): A liquid crystal device according to claim 13, further comprising a thin film transistor.

21. (Withdrawn): A liquid crystal device according to claim 13, wherein the first substrate is transparent.

22. (Withdrawn): A liquid crystal device according to claim 21, further comprising a pixel electrode on the first substrate.

23. (Withdrawn): A liquid crystal device according to claim 13, further comprising a color filter on the second substrate.